

1

2 **In the Claims**

3

Claims 1-33 remain in the Application and are presented below.

5 **1.** (Original) A method for synchronizing information in namespaces,
6 comprising:

7 receiving an indication of a change to information in a first namespace;
8 based on the indication, determining if an entity exists in a second
9 namespace related to the information;
10 if so, determining if the entity has a characteristic that conflicts with the
11 information; and

12 if a conflict exists, modifying the entity to resolve the conflict prior to
13 applying the change to the second namespace.

14

15 **2.** (Original) The method of claim 1, wherein the indication of the
16 change comprises a notice that another entity was added to the first namespace.

17

18 **3.** (Original) The method of claim 2, wherein the characteristic
19 comprises a name of the other entity.

20

21 **4.** (Original) The method of claim 3, wherein the conflict comprises a
22 name collision between the entity in the first namespace and the entity in the
23 second namespace.

1 5. (Original) The method of claim 4, wherein modifying the entity in the
2 second namespace comprises creating an indication that the characteristic of the
3 entity in the second namespace has become invalid.

4

5 6. (Original) The method of claim 5, wherein creating the indication
6 comprises associating with the entity in the second namespace an indication that
7 the name of the entity in the second namespace is no longer valid.

8

9 7. (Original) The method of claim 1, wherein the information in the first
10 namespace comprises an entity in the first namespace.

11

12 8. (Original) The method of claim 1, wherein modifying the entity
13 comprises altering the characteristic of the entity to eliminate the conflict.

14

15 9. (Original) The method of claim 8, wherein the characteristic
16 comprises a name of the entity, and wherein altering the characteristic comprises
17 modifying the name of the entity.

18

19 10. (Original) The method of claim 9, wherein modifying the name
20 comprises replacing the name with a unique identifier.

21

22 11. (Original) The method of claim 9, wherein modifying the name
23 comprises setting a flag associated with the entity to indicate that the name of the
24 entity is transient.

1 12. (Original) A computer-readable medium having computer-
2 executable instructions for performing the method of claim 1.

3
4 13. (Original) A method for synchronizing information in namespaces,
5 comprising:

6 receiving an indication of a change to information in a first namespace;
7 based on the indication, determining if an entity exists in a second
8 namespace related to the information;
9 if not, creating a representation of the entity within the second namespace.

10
11 14. (Original) The method of claim 13, wherein the indication of the
12 change comprises a notice of a reference to the entity in the second namespace.

13
14 15. (Original) The method of claim 14, wherein the reference indicates
15 that the information in the first namespace refers to the entity in the second
16 namespace.

17
18 16. (Original) The method of claim 15, wherein the representation of the
19 entity comprises a phantom entity in the second namespace.

20
21 17. (Original) The method of claim 16, wherein the phantom entity
22 includes a flag indicating the state of the phantom entity.

1 **18.** (Original) The method of claim 17, further comprising, receiving a
2 second indication of a second change to information in the first namespace and in
3 response to the second indication, modifying the state of the phantom entity.

4

5 **19.** (Original) The method of claim 18, wherein the second indication
6 comprises an instruction to create the entity in the second namespace.

7

8 **20.** (Original) A computer-readable medium having computer-
9 executable instructions for performing the method of claim 13.

10

11 **21.** (Original) A technique for synchronizing entities within two
12 namespaces, comprising:

13 while synchronizing the two namespaces:

14 identifying a conflict between a change notification received from a
15 first namespace and a state of information within a second namespace;

16 creating a temporary entity within the second namespace that allows
17 the synchronization to proceed without interference by the conflict; and

18 if the conflict becomes resolved such that the temporary entity is no
19 longer necessary, removing the temporary entity.

20

21 **22.** (Original) The technique of claim 21, wherein the conflict becomes
22 resolved by receiving a notice to delete the temporary entity.

1 **23.** (Original) The technique of claim 21, wherein the conflict becomes
2 resolved by receiving a notice to make the temporary entity permanent.

3
4 **24.** (Original) A computer-readable medium encoded with a data
5 structure, comprising:

6 a plurality of entities, each entity having

7 a first field having a name, the name being unique across each entity
8 in the data structure;

9 a second field having an identity, the identity being globally unique;
10 and

11 a third field having a phantom property, the phantom property being
12 operative to distinguish between a first state of the entity and a second state of the
13 entity.

14
15 **25.** (Original) A computer-readable medium having computer-
16 executable components, comprising:

17 a synchronization environment having an associated external namespace, an
18 associated central namespace, and a synchronization mechanism, the
19 synchronization mechanism being configured to receive change information from
20 the external namespace that identifies a plurality of changes to at least one object
21 in the external namespace, the synchronization mechanism being configured to
22 receive the change information in a first order that differs from a second order, the
23 second order being the temporal order in which the changes occurred to the at least
24 one object in the external namespace, the synchronization mechanism further
25 comprising a name resolving component and a placeholder component, the name

1 resolving component being operative to avoid name collisions and the placeholder
2 component being operative to avoid dangling references.

3

4 26. (Original) The computer-readable medium of claim 25, wherein the
5 central namespace includes a plurality of objects that are correlated to a
6 corresponding plurality of objects in the external namespace.

7

8 27. (Original) The computer-readable medium of claim 25, wherein the
9 name collision comprises an error corresponding to two objects in the central
10 namespace having similar names.

11

12 28. (Original) The computer-readable medium of claim 27, wherein the
13 name resolving component comprises a pair of subspaces, one subspace for
14 transient objects, and the other subspace for non-transient objects.

15

16 29. (Original) The computer-readable medium of claim 28, wherein the
17 transient objects comprise objects that have been identified as having a name that
18 is no longer valid.

19

20 30. (Original) The computer-readable medium of claim 28, wherein the
21 non-transient objects comprise objects that have not been identified as having a
22 name that is no longer valid.

1 31. (Original) The computer-readable medium of claim 25, wherein the
2 dangling reference comprises an error corresponding to one object in the central
3 namespace referring to another object in the central namespace that does not yet
4 exist.

5
6 32. (Original) The computer-readable medium of claim 31, wherein the
7 placeholder component comprises an identifier on a phantom object in the central
8 namespace.

9
10 33. (Original) The computer-readable medium of claim 32, wherein the
11 phantom object comprises an object that is referred to by another object in the
12 central namespace but which has not yet been formally created.